

26(8) PHASE I BOOK EXPLOITATION SOV/1826

Akademiya Nauk SSSR. Energeticheskiy Institut

Reprintredacha i Redakcija modelirovaniya (Heat Transfer and
Modeling of Heat Processes). Moscow, Izd-vo AN SSSR, 1959.
419 p. Errata slip inserted.
3,500 copies printed.

Repr. Ed.: N. A. Kirpichev, Academician; Ed.: D. A. Ivanova; Tech. Ed.: G. M. Shevechenko.

PURPOSE: The book is intended for scientists concerned with heat transfer, heat assimilation, and hydraulics of liquid metals, etc.

COVERAGE: This collection is dedicated to the memory of Academician N. V. Kirpichev who in the twenties initiated a systematic investigation of heat transfer processes and the efficiency of heat apparatus. Later he led the development of research work in this field. Two special collections of research work in school have been published, one in 1938, material to Kirpichev's po modelirovaniyu (Materials to the Conference on Modeling) and in 1951, Teoriya podobnosti i modelirovaniye (Theory of Similarity) and in Further development of the work of this school. This theory is fundamental for the analysis of many heat problems in the field of electrical and radio engineering. Of great importance are the first systematic investigations of heat transfer and the use of hydraulicized or liquid metals which as a new kind of heat carrier may be used in the various branches of modern engineering. As a result of special investigations of some cases of convective heat transfer, a dependence of the process on the kind of liquid, temperature, pressure, direction of the flow, and other factors was discovered and established. On the basis of a wide generalization of experimental data, new dependable recommendations for heat analysis of engineering equipment were developed and the condensation of steam on heat transpiration in boiling liquids. The theory of stability, that of heat transfer, and the nature of which, according to N. V. Kirpichev, is that of experimentation. Work on the basis of a regular review applied to a system of bodies with an internal source of heat is of interest for the future.

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Surikov, Yu. / On Methods of Analysis or Integral and Local Radiation Coefficients 119

This work contains a description of methods for analyzing integral and local radiation coefficients of bodies in two-dimensional and of some categories of three-dimensional

problems. Examples of the application of these methods are given, some new theorems on the kinematic structure of the field of radiation, and the properties of radiation streams are also described. The following possibilities are mentioned: P. S. Aleksandrov and N. N. Kholzakov in connection with the determination of fundamentals of the theory and measurement of great numbers of Academician V. A. Fok, G. V. Polya, Yu. V. Surikov, in connection with the methods of analysis of integral geometric invariants, one-coefficients of irradiation. There are 16 references. 1) Soviet, 2) English, and 1 German.

Igor'ev, A. S. Application of the Theory of Similarity to Analysis of the Phenomenon of Radiation in Furnaces and Burners 119 This article consists of a systematic review of the applications of the theory of similarity to investigations of radiation in the chambers of furnaces and burners. In view of the complexity of processes taking place in furnaces and burners, radiation was studied under conditions of the first attempt. In the study of this problem were made by G. V. Levkov, N. S. Svirkin, and N. V. Surikov. First publications on this subject were done by G. V. Levkov, N. S. Svirkin, and N. V. Surikov (1940-50). Later works were written by G. V. Levkov, A. M. Gavrilov, S. Ya. Mostovskiy, N. M. Vinogradov, and P. K. Konarov. Tu. ... Such distributed problems of radiation exchange in the presence of absorbing and diffusing media, there are 16 Soviet references.

W/96-59-4-11/21

AUTHOR: Nevskiy, A.S., Candidate of Technical Sciences

TITLE: The Influence of Screen Surface Contamination on the Effectiveness of Operation of the Screens (O vliyanii zagryazneniya ekranov po vliyaniyu na effektivnost' raboty ekranov)

PERIODICAL: Teploenergetika, 1959, Nr 4, pp 56-61 (USSR)

ABSTRACT: Hitherto, calculations of radiative heat exchange in the furnaces of steam boilers have been based on the assumption that radiation emitted by the heated surfaces is negligible in comparison with radiation from the fire. When the screens and boiler surfaces are clean this assumption is undoubtedly valid but it has been suggested that when the surfaces are heavily contaminated their outside surfaces get much hotter and may give off appreciable amounts of radiation. It is of interest to consider this problem from a theoretical standpoint. In this article it is considered on the one hand from the standpoint of total radiative heat exchange in the furnace chamber, taking as a basis the magnitude of the visible radiation factor and, on the other hand, on the basis of local concepts, taking as initial data the incident and

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The Influence of Screen Surface Contamination on the Effectiveness of Operation of the Screens

effective radiation of the screen well. First, the chamber is supposed to be filled with radiating medium which is everywhere the same temperature. The chamber walls are covered with uniformly radiation absorbing surface in the form of screen tubes mounted on an adiabatic lining. In the general case the tubes are assumed to be contaminated with layers of flyash, slag and so on. The usual assumptions are made such as are used in methods of analysing radiative heat exchange. The theoretical treatment is given and formula 18 gives the magnitude of radiative heat exchange per square meter of furnace chamber wall on the assumption that the temperature of the radiating medium is constant. Using the mean effective temperature method of calculating the radiation in furnaces this formula may also be used to determine the total heat exchange in the furnace, see Eq.23. This can be further simplified to the form of Eq.20. An analysis of the effect by the method of the theory of similarity is then given. Heat exchange at the

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The Influence of Screen Surface Contamination on the Effectiveness
of Operation of the Screens

boundary of the fire is first considered. The method of arriving at an equation that may be used to determine the utilisation coefficient of the screen is explained. A graphical relationship between the coefficient of thermal effectiveness of the screen and the referred absorptive capacity are given in Fig.6. Local values of radiant flux are then considered. Thermal probe readings are used for two sets of operating conditions, giving two equations of the type equation (39) with two unknowns, which can be solved simultaneously. In this way with the degree of blackness of the radiation receiving surface can be found. Test data obtained for a boiler type KP-P30..3 are briefly given. There are 6 figures and 10 Soviet references.

ASSOCIATION VNII Metallurgicheskoye teplotekhniki (Scientific Research Institute of Metallurgical Thermal Technology)

Card 3/3

PHASE I BOOK EXPLOITATION

SOV/4076

Nevskiy, Aleksandr Sergeyevich

Primeneniye teorii podobiya k izucheniyu teplovyx raboty nagrevatel'nykh pechey
(Application of the Similarity Theory to the Study of the Thermal Processes in
Heating Furnaces) Sverdlovsk, Metallurgizdat, 1960. 126 p. Errata slip inserted.
3,650 copies printed.

Ed.: A.V. Kavaderov; Ed. of Publishing House: M.M. Syrchina; Tech. Ed.: Ye.D.
Turkina.

PURPOSE: The book is intended for engineers working in metallurgical heat engineering and scientific workers. It may also be used by students in advanced courses at schools of higher technical education.

COVERAGE: The problems of applying the theory of similarity to the study of thermal processes in heating furnaces are discussed. General aspects of the theory of similarity are briefly reviewed. Application of this theory to continuous and batch-type furnaces is studied. Principles of modeling of heating furnaces are

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Application of the Similarity Theory (Cont.)

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presented. No personalities are mentioned. There are 34 references: 32 Soviet, 1 English, and 1 German.

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NEVSKIY, A. S.; ARSEYEV, A. V.; CHUKANOVA, L. A.; MALYSHEVA, A. I.; SHAROVA, T. V.

"Convective heat transfer in cylindrical chambers with recirculation."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1954.

All-Union Sci Res Inst Metallurgy.

85439

S/170/60/003/0**/0**/0**
3013/3056

11.2320

AUTHOR: Nevskiy, A. S.

TITLE: The Melting Mechanism of Multicomponent Systems

PERIODICAL: Inzhenerno-fizicheskiy zhurnal '960, Vol. 3, No. 11.
pp. 102-107

TEXT: The author investigated the melting process of perpendicular or inclined plates of crystalline bodies. It was assumed that the temperature gradient in the solid on the boundary layer to the molten-off material is constant. In a thermodynamic investigation the author derives a formula for the fusing rate of the material. From this formula it may be seen that the fusing rate depends on the fusion heat of the material and the conditions of the heat supply on the boundary layer between solid and molten material. Formulas are given for the thickness of the boundary layer and its temperature. Furthermore, the author investigates the fusing process in consideration of the pre-heating of the plate caused by melting-off. This means that the temperature gradient in the solid on the boundary layer is no longer looked upon as constant. The variation of temperature distribution is studied in this case, and a formula is given for the quantity

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The Melting Mechanism of Multicomponent
Systems

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of heat absorbed as fusion heat by a layer of the thickness δ . Finally the following differential equation is set up for the boundary layer for the conditions investigated here:

$$\frac{d}{dx} \lambda \frac{dt}{dx} = \gamma v \frac{da}{dx} \left(1 - \frac{x}{\delta} \frac{d\delta/dx}{v} \right) \quad (19)$$

Thus differential equation differs from that describing melting-off at constant temperature gradients by the term:

$$\frac{x}{\delta} \frac{d\delta/dx}{v}$$

There are 3 figures

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy inst.tut metallurgicheskoy teplotekhniki, g. Sverdlovsk
(All-Union Scientific Research Institute for Metallurgical Heat Engineering, Sverdlovsk)

SUBMITTED: April 18, 1960

Card 2/2

NEVSKIY, A.S., doktor tekhn.nauk

Radiant heat exchange with a contaminated screen wall.
Teploenergetika 7 no.10:75-79 O '60. (MIRA 14:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki.
(Heat--Transmission) (Boilers)

Report Presented at the Conference on Heat and Transfer,
Moscow, USSR, 5-10 June 61.

IV-232
56

287. P. I. Povarin, Generalization of the Data on the Boiling Critical Atmosphere in Cases of the Non-Boiling Heat Transfer in Cases of the Critical Point of Liquid-Drop Instabilities.
288. I. B. Krichevsky, N. S. Makarov, L. N. Leont'ev, Heat Transfer in Cases of the Critical Point of Liquid-Drop Instabilities.
289. V. I. Tikhonov, The Rate of Vapour Bubble Growth at Boiling of Liquids.
290. N. G. Stepanov, New Investigation Results on Heat Transfer at Surface Boiling.
291. N. I. Izadlyuk, The Theory of Convective Heat Transfer at Vaporization.
292. I. R. Arshavsky, N. E. Krassanov, L. S. Leonovskaya, Diffusion in Cases of High Pressures.
293. P. I. Povarin, Thermodynamic Stability Methods for Liquid Surface Tension Calculation.
294. A. V. Arsenov, A. G. Nevezin, Aerodynamic Heating and Heat Transfer in Diffracted Chambers at Gas Velocities.
295. G. A. Ostroumov, Hydrodynamic Explanation of Electrical Properties of Insulation Materials.
296. K. M. Lebedev, Aerodynamic Means of Heterogeneous Process Intensifications.
297. B. H. Inge, Instrumental Investigation of the Liquid Oxygen Sublimation Process.
298. O. V. Vaynshteyn, L. S. Alenkov, On the Determination of the Heat Transfer of Freezing of Air Samples.
- ** 299. S. Baird (USA), Heat and Mass Transfer at the Electromagnetic Phase of Diffracted Convection and Condensation in the Presence of Radiation.
300. A. S. Ginal'skiy, Actual Problem of Physics of Liquids.
301. V. G. Karpenko, Heat and Mass Transfer at Boiling of Steam-Condensed Water, Optimal Conditions.
302. F. I. Zubov, I. A. Leptina, Investigation of Heat Transfer in Nuclear Cooling.
- ** 303. A. F. Seregin, Yu. A. Krylov, Radiation-Resistive Heat Transfer in Cases of Limited Oxide Yttria.
304. V. N. Prudnikov, A. G. Nevezin, Experimental Investigation of Heat and Mass Transfer of the Diffracted Convection in the Presence of Radiation.
305. O. A. Butin, Hydrodynamic Means of Stabilizing and Intensifying Boiling of Liquids by Radiation.

NEVSKIY, A.S.

Materials preparation in investigating the melting of the charge in
a liquid melt. Izv. vys. ucheb. zav.; chern. met. 4 no.12:40-44
'61. (MIRA 15:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy
teplotekhniki.

(Open-hearth furnaces) (Scrap metals)

NEVSKIY, A.S., doktor tekhn.nauk

Physical meaning of radiation equations and associated errors
in the derivation of the energy equation. Teploenergetika
8 no.8:94-95 Ag '61. (MIRA 14:10)
(Heat—Transmission)
(Furnaces)

NEVSKIY, A.S.

On P.K.Konakov's article in IFZh no.6, 1962. Inzh.-fiz.zhur.
6 no.3:127-130 Mr '63. (KFA 16:2)
(Dimensional analysis) (Heat engineering)

NEVSKIY, Aleksandr Sergeyevich; KAVADEROV, A.V., doktor tekhn. nauk,
red.; SHIBOKOV, G.I., retsenzent; YAKOVENKO, N.N., red.
izd-va; KARASEV, A.I., tekhn. red.

[Heat transfer in open-hearth furnaces] Teploperedacha v
martenovskikh pechakh. Moskva, Metallurgizdat, 1963. 171 p.
(MIRA 17:2)

NEVSKIY, A. S.

Selection of an initial impulse for the continuous automatic control of thermal processes on open-hearth furnaces; concerning A. I. Chernogolov's article. Izv.vys.ucheb.zav.; chern.met. 7 no. 4:160-163 '64. (MIR^A 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki.

NEVSKIY, A.S.; SHABAIIIN, K.N.; KITAYEV, B.I.; ZABRODSKIY, S.S.

Nikolai Ivanovich Syromyatnikov, 1915- ; on his 50th birthday.
Inzh.-fiz. zhur. 8 no.3:411-412 Mr '65.

(MIRA 18:5,

52198-65 LWT(1)/EPF(c)/EPF(n)-2/EWG(m)/EPR Fr-4/Ps-4/Pu-4 NH
ACCESSION NR: AF5013917 UR/0170/65/000/005/0613/0619
530.3 29
29

AUTHOR: Nevaskiy, I. S.

TITLE: On the possibility of a single approach to consideration of several cases
in radiation heat transfer between bodies

SOURCE: Inzhererno-fizicheskiy zhurnal, no. 5, 1965, 613-619

TOPIC TAGS: Radiation heat transfer, integral equation, mathematical model,
approximation method

ABSTRACT: Three cases of radiation heat transfer between arbitrary shapes were
considered analytically. The three shapes constitute radiation exchange between
two surfaces, between a surface and a volume, and between two volumes. The shape
factors for each of the above geometries are given by

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$$H_{F-V}(l, q) = \frac{1}{\pi} \int \int k_p \cos \theta_p x^{-q} \exp(-k_p x) dV_p dV_q$$

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$$H_{F-V}(p, q) = \frac{1}{\pi} \int \int k_p k_q x^{-q} \exp(-k_p x) dV_p dV_q$$

where the various parameters are defined in Fig. 1 on the Enclosure. In the analysis, $H(i, k)$ is represented by $H_i(t, k)$ which

expressed by equations

$$H_{K-V}(l, q) = \bar{H}_s(l_s, k_s)$$

$$\bar{H}_s(l_s, k_s) = \sum_{\alpha} \sum_{\beta} \bar{H}(a_{\alpha}, \beta_s)$$

and

$$H_{V-V}(p, q) = \bar{H}_{s,p}(l_s, k_s)$$

$$\bar{H}_{s,p}(l_s, k_s) = \sum_{\alpha} \sum_{\beta} \bar{H}(a_{\alpha}, \beta_p)$$

A special example is considered where radiating volumes are divided into 36 elemental surfaces and the total shape factor is represented by the sum of these elemental shape factors. Orig. art. has: 25 formulas and 2 figures.

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ACCESSION NO. AP5013917

ISSUING LIBRARY: Vsesoyuznyy institut metallicheskoy tekhniki, g. Sverdlovsk

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001136810

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Card 3/4

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001136810C

Card 4/6

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In this paper two methods of calculating absorption coefficients are independent of the temperature of the absorbing medium, a method based on the assumption that the absorption coefficients are proportional to the density (Beer's law), and a method based on calculating the radiation from the spectral characteristics of the gases. The radiation of a plane layer with uneven thickness distribution of the temperature is also calculated. Orig. art. has: 5 figures and 44 formulas.

Author: V. V. Kostylev
Source: Sov. J. Nucl. Engng., 1957, v. 1, p. 103-107
Language: Russian
Title: Radiation of a Plane Layer with Uneven Thickness Distribution of the Temperature

Host Engineering)		ENCL: 00	SUB CODES: ID, NP
SUBMITTED: 2/27/65	MR. REP. Sov: 009	OTHER: 001	
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L 00479-66 EIT(m)/EPF(c)/EMP(t)/EMP(b) LIP(c) JD
ACCESSION NR: AP5020560 UR/0294/65/003/004/0577/0586
535.231.4:546.265

AUTHOR: Chukanova, L. A.; Nevskiy, A. S.

TITLE: Experimental investigation of the irradiation of carbon dioxide gas at nonequilibrium temperatures. II.

SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 4, 1965, 577-586

TOPIC TAGS: gas irradiation, carbon dioxide, nitrogen, temperature dependence
APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001136810

ABSTRACT: Irradiation of the gas was carried out in two coaxial chambers with a beam length of 163 mm in each chamber. Along the axis of the chamber were, to the left, a radiometer for measuring the irradiation of the gas and, to the right, a hot or cold black body. A mixture of carbon dioxide gas and nitrogen was blown through the chambers at different temperatures in each chamber. Each chamber consisted of an inner volume in which the irradiation of the gas was measured, and an outer annular space in which the gas was heated. Three series of experiments were made: 1) with identical temperatures and carbon dioxide concen-

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ACCESSION NR: AP5020560

trations in both chambers, 2) with different temperatures but identical concentrations, and 3) with different temperatures and concentrations in both chambers. Tests were made at nonequilibrium temperatures up to 900C. Experimental values agreed well with calculated values. For calculation of the temperature dependence of gas absorption, it is recommended to proceed by an approximate method based on the assumption of lack of dependence of the spectral coefficients of the absorbing medium on its temperature. This method has been verified up to 900C. Orig. art. has: 6 formulas, 7 figures and 3 tables

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy teplotekhniki (All-Union Research Institute for Metallurgical Heat Technology)

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Card 2/2

L 10091-66 EWT(1)/ETC(F)/EPF(n)-2/ENG(m) RW/GS

ACC NR: AT6001367

SOURCE CODE: UR/0000/65/000/000/0230/0238

AUTHOR: Nevskiy, A. S.; Arseyev, A. V.; Chulanova, L. A.; Malysheva, A. I.; Sharova, T. V.

ORG: All-union Scientific Research Institute of Metallurgical Heat Engineering,
Sverdlovsk (Vsesoyuznyy nauchno-issledovatel'skiy institut metallurgicheskoy
Teplotekhniki)

TITLE: Convective heat transfer in cylindrical chambers with flow recirculation

SOURCE: Teplo- i massoperenos. t. 1: Konvektivnyy teploobmen v odnorodnoy srede
(Heat and mass transfer. v. 1: Convective heat exchange in an homogeneous medium).
Minsk, Nauka i tekhnika, 1965, 230-238

TOPIC TAGS: heat transfer, cooling, combustion chamber

ABSTRACT: Experiments were made to determine the heat transfer conditions when a hot gas is injected through a nozzle at the closed end of a cylindrical chamber. Under these conditions, a pressure gradient along the wall is established which induces flow recirculation. The latter considerably increases the heat transfer without recirculation. The experiments were conducted with two chambers which were 1.83 m and 2.43 m long and 0.3 and 0.18 m in diameter. The cylinder jackets were divided into 13 and 16 separate compartments, respectively, to permit calorimetric

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measurement of the heat transfer at various points in the chamber. Air preheated to 973K was injected through one central and one peripheral nozzle. The nozzle diameters and the flow rates were varied as parameters. Nu_{ex} (experimental Nusselt number) were determined from the measured flow rates and temperatures in each calorimetric section. Nu was then calculated from the formula $Nu = 0.018 Re^{0.8}$, and the ratio $\phi = Nu_{ex}/Nu$ was calculated and plotted for various air flow rates and nozzle sizes as a function of the distance from the inlet. It was found that ϕ increases and at a distance $l = (1.5-2.9)D$ (D is the chamber diameter), it reaches a maximum which for a given flow rate may attain a value of 7. When the air flow rate through the central nozzle was increased, the maximum of ϕ shifted toward the chamber outlet. The maximum had the lowest value when the air flow rates through the central and peripheral nozzles were equal. When air was injected through 55 uniformly spaced orifices in the chamber bottom, ϕ had no maximum and decreased rapidly to the normal value for turbulent heat transfer. Orig. art. has: 5 figures.

[PV]

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Card 2/2

NEVSKIY, A.S.

Experimental method for determining the integral coefficient
of ray attenuation in a furnace medium. Inzh.-fiz. zhur. 10
no.1:135-137 Ja '66. (META 12:)

1. Institut metallurgicheskoy teplotekhniki, Sverdlovsk.
Submitted April 10, 1964.

NEVSKIY, A. V.

IA 242T45

USSR/Electricity - Literature Feb 52

"Literature on Industrial Power Engineering,"
compiled by A. V. Nevskiy

"Prom Energet" No 2, pp 30-31

Lists and describes briefly contents of 21 books published in USSR (16 in 1950, 5 in 1951) on industrial power engineering, including "Electronics" ("Elektronika"), an exposition of the physical basis of electronics, describing fundamental vacuum tube devices and ways of using them in appropriate equipment, under general editorship of A. L. Zhigarev (1951).

242T45

1. NEVSKIY, A. V.
2. USSR (600)
4. Technology--Bibliography
7. Survey of technical books and journals, *Sel'khozmashina*, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

NEVSKIY, A.V.

Literature on industrial power engineering. Prom.energ. 10 no.5:30 My '53.
(MLRA 6:5)
(Power engineering--Bibliography)

EWINSKY, B. A.

26195 Statki so stomatologii z. 104. g. (ADM SPISOK) Stomatologiya, 140, №. 9, 1962.
SO: Leningrad, 1962.

Science

Handbook of nomography. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1951.

Monthly List of Russian Accessions, Library of Congress, April, 1952. UNCLASSIFIED.

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NEVSKIY, B.N.

In the Collegium of the Ministry of Public Health of the R.S.F.S.R.
Zdrav. Ros. Feder. 4 no.6:43-44 Je '60. (MIRA 13:9)
(PUBLIC HEALTH)

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NEVSKIY, B.N.

In the Collegium of the Ministry of Public Health of the R.S.F.S.R.
Zdrav.Ros.Feder. 4 no.11:37-38 '60. (MIRA 13:11)
(PUBLIC HEALTH RESEARCH)

NEVSKIY, B.N.

"Squeezing out" of foreign bodies from the esophagus. Sov.med.
26 no.8:92-98 Ag '62. (MIRA 15:10)

1. Iz klinicheskogo otdeleniya i patofiziologicheskoy laboratorii
Moskovskogo nauchno-issledovatel'skogo instituta ukha, gorla i nosa
(dir. - prof. N.A.Bobrovskiy).
(ESOPHAGUS--FOREIGN BODIES)

NEVSKIY, B.N.

Amyloidosis of the larynx. Zhur. ush., nos. i gorl. bol. 23 no. 3:
49-55 My-Je'63. (MIRA 16:7)

1. Iz Moskovskogo gosudarstvennogo nauchno-issledovatel'skogo
Instituta ukha, gorla i nosa (dir.-prof. N.A. Bobrovskiy),
(AMYLOIDOSIS) (LARYNX—DISEASES) (HORMONE THERAPY)

BOBROVSKIY, N.A., prof., red.; VOL'FKOVICH, M.I., prof., red.; VOL'FSOON, Z.I., prof., red.; LIKHACHEV, A.G., prof., red.; NEVSKIY, B.N., red.; PREOBRAZHENSKIY, B.S., prof., red.; SACALOVICH, B.M., doktor med. nauk, red.; SAMAROV, F.P., prof., red.; UNDRITS, V.F., prof., red. [deceased]

[Transactions of the First All-Russian Congress of Otorhinolaryngologists] Trudy pervogo Vserossiiskogo s"ezda otorinolaringologov. Moskva, Medgiz, 1963. 318 p.

(MIRA 17:7)

1. Vserossiyskiy s"yezd otorinolaringologov. 1st. Volgograd, 1962.
2. Deystvitel'nyy chlen AMN SSSR (for Preobrazhenskiy).
3. Chlen-korrespondent AMN SSSR (for Undr'ts).
4. Glavnnyy otorinolaringolog Ministerstva zdravookhraneniya RSFSR (for Bobrovskiy).

BOBROVSKIY, N.A., prof., red.; VOL'FKOVICH, M.I., prof., red.
(Saratov); VOL'FSO, Z.I., prof., red.; NEVSKIY, B.N.,
red.; PREOBRAZHENSKIY, B.S., prof., red.; SAGALOVICH,
B.M., doktor med. nauk, red.; SAKHAROV, P.P., prof.,
red.; UNDRITS, V.F., prof., red. [deceased]

[Transactions of the First All-Russian Congress of
Otorhinolaryngologists] Trudy Vserossiyskogo s"yezda
otorinolaringologov. Moskva, Medgiz, 1963. 518 p.
(MIRA 18:3)

1. Vserossiyskiy s"yezd otorinolaringologov. 1st,
Volgograd, 1962. 2. Deystvitel'nyy chlen AMN SSSR
(for Preobrazhenskiy). 3. Chlen-korrespondent
AMN SSSR (for Undrits).

BARSKIY, Aron El'yevich, inzh.; DYMISHITS, Mikhail Abramovich,
inzh.; NEVSKIV, S.N., inzh., retsenzent; SENCHUROV, P.P.,
inzh., red.izd-va; STARODUB, T.A., tekhn. red.

[Attachments for machine tools; adjusting and multiple-purpose] Prisposobleniya k metallorezhushchim stankam;
naladochnye i universal'nye. Kiev, Gostekhizdat USSR,
1963. 223 p.
(MIRA 17:3)

SAL'NIKOV, Georgiy Pavlovich, inzh.; DIDKOVSKIY, P.V., inzh., retsenzent; DONDIK, I.G., inzh., retsenzent; ZAKHARENKO, I.P., kand. tekhn. nauk, retsenzent; ZEYGER-MAKHER, A.S., inzh., retsenzent; KAMENICHNYY, I.S., inzh., retsenzent; MITSKEVICH, Z.A., kand. khim. nauk, retsenzent; NEVSKIY, B.N., inzh., retsenzent; RADOMYSEL'SKIY, I.D., kand. tekhn. nauk, retsenzent; CHEKURNA, M.G., inzh., red.izd-va; SHAFETA, S.M., tekhn. red.

[Brief handbook for mechanical engineers] Kratkii spravochnik mashinostroitelia. Kiev, Gostekhizdat USSR, 1963. 542 p.
(MI:IA 17:2)

NEVSKIY, B.M.

X-ray diagnosis of foreign bodies in the esophagus. Kazo
Med. Zhur. no.6:21-25 '62. (MIRA 17:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut ukha,
gorla i nosa Ministerstva zdravookhraneniya RSFSR (dir. - prof.
N.A. Bobrovskiy).

NEVSKIY, B.N.

Hemorrhage of the frontal sinus as a sequela of atrauma and
its treatment. Zhur. ush., nos. i gorl. bol. 23 no. 5: 72-75
S-0163 (MIRA 17:3)

1. Iz Moskovskogo gosudarstvennogo nauchno-issledovatel'skogo
instituta ukh, gola i nosa (dir. - prof. A.N. Bobrovskiy).

NEVSKIY, B.N.

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the esophagus. Vest. oto-rin. 25 no.4:53-58 Jl-Ag '63.
(MIRA 17:1)

1. Iz klinicheskogo otdeleniya Gosudarstvennogo nauchno-
issledovatel'skogo instituta bolezney ukha, nosa i gorla
(dir. - prof. N.A. Bobrovskiy) Ministerstva zdravookhra-
neniya RSFSR, Moskva.

NEVSKY, DON, MAJOR, T-3, 1960, Soviet Union

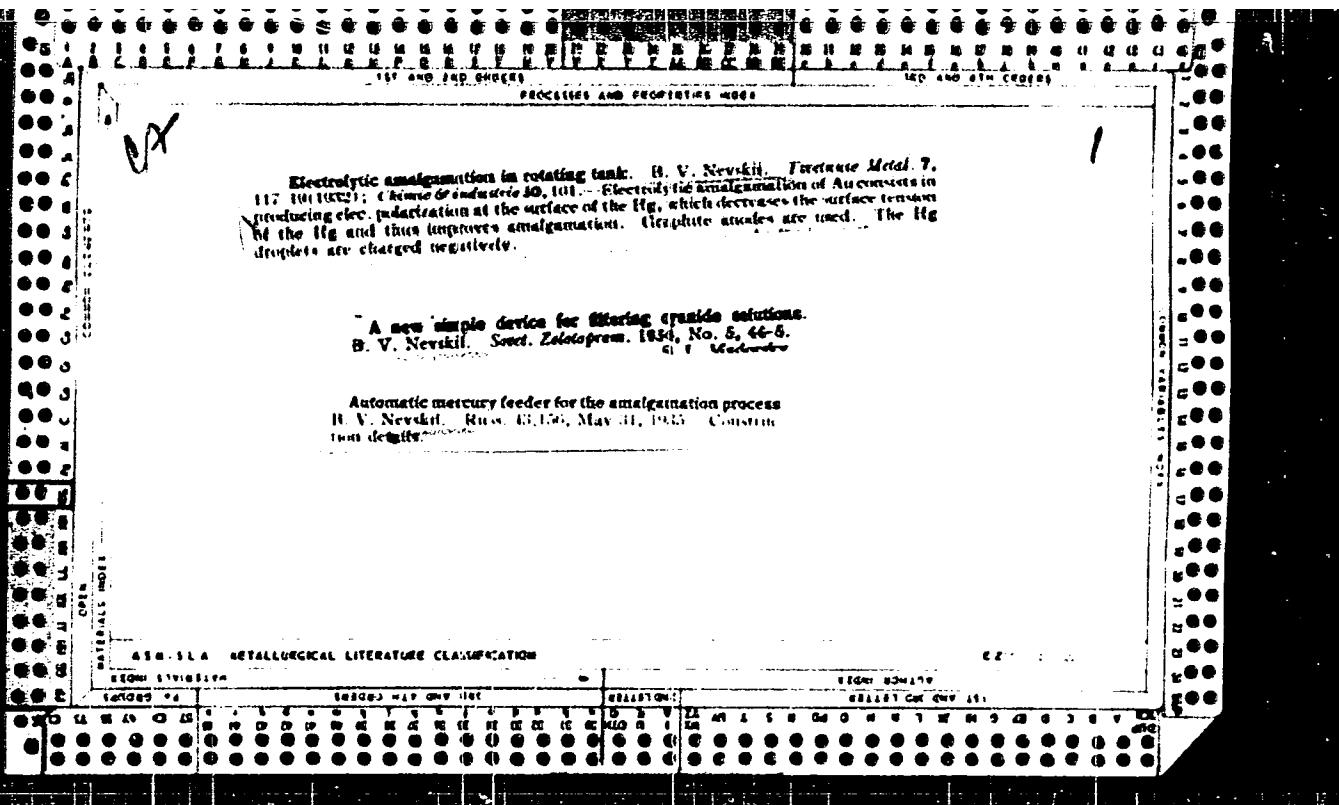
Possible cause of early May 1968 disease of the cervical portion of the vaginum caused by foreign bodies. West, radio, dated 1968-05-08 RDP 10.

MIRA, Dr.,
Dr. T. F. Finken, M.D., M.P.H., Prof. Dr. M. Jantzen,
Gesundheitsamt, Berlin, Volksdeutsche Gesundheitsanstalt, Berlin,
Germany, Dr. H. Hirsch, Prof. Dr. N. A. Horovitzky, Ministerium
zdravookhraneniya RSFSR.

132211, 1968

... results of the investigation of the
intelligence situation in the
U.S. (including the U.S. and its
allies) and the Soviet Union.

... In addition, the investigation should include:
intelligence situation in the U.S. (including the U.S. and its
allies) and the Soviet Union.



Cyanide fusions and their solution. D. Neyski. *Nauk. Zodoloprom.* 1926, No. 1, 31-2. *Chem.-Zentr.* 1927, I, 997. -- The regeneration of spent cyanide solns. by the Na₂S present in large量s. in the fresh solns. as recommended by Paramonow (cf. C. A. 30, 9989) is questioned since the Na₂S content specified by Paramonow is assumed as much too high and the filtration of the insol. residue of the CN soln. is possible only with difficulty. A more expedient method for continuous slow extrn. of cyanide fusions with the use of a settling basin for the insol. residue and subsequent filtration of the soln. through a sand filter is described. M. G. Moore

APPENDIX - RETROGRADE LITERATURE CLASSIFICATION

The Micauna gold mine, B. V. Nevskif, Noecl Lidaoprom, 1916, No. 4, 46-01. The ore deposit is given and discussed in detail. The ore used is a mixt. of clay, ochre and quartz. It is almost completely oxidized, so that it has only a trace of sulfides (0.5%) chiefly pyrrhotite. The clay contains practically no Au. The Au is chiefly free but very fine (80% less than 0.1). Recovery of Au is 85%, 38.5% by amalgamation and 41.5% by cyanidation. Losses amount to 10% in shimes and 10% in sands. It is proposed to raise the Au extn. to 92% by washing off the clay, eliminating indirect amalgamation and adopting all dining. Large-scale expts. gave the following results: yield of clay 50%, Au in clay 0.2-0.3%, Au in sands 40%. The washed sands, when ground to 100 mesh, easily give up the Au both by amalgamation (up to 85%) and by cyanidation in the dining process (up to 90%). B. Z. Kamchik

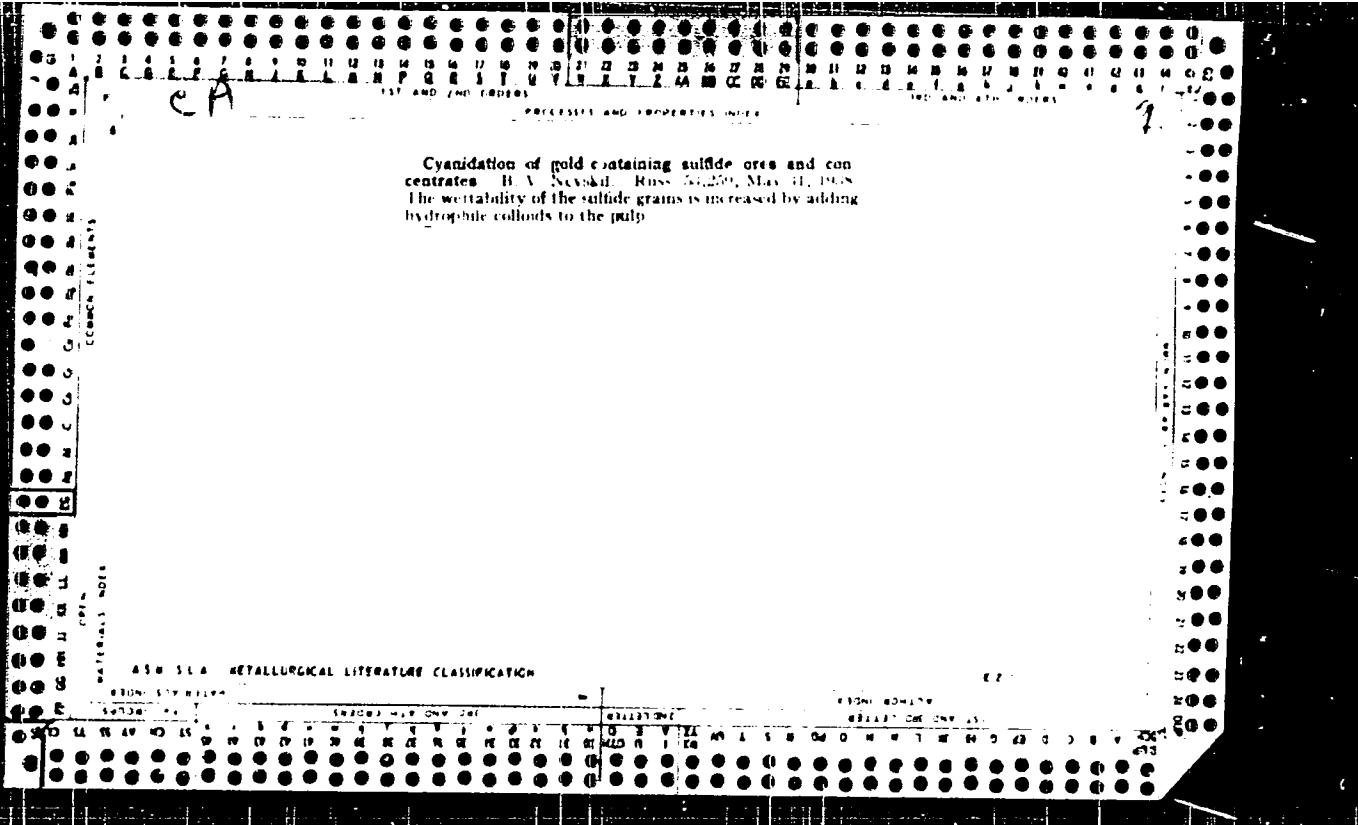
The Winning Plate

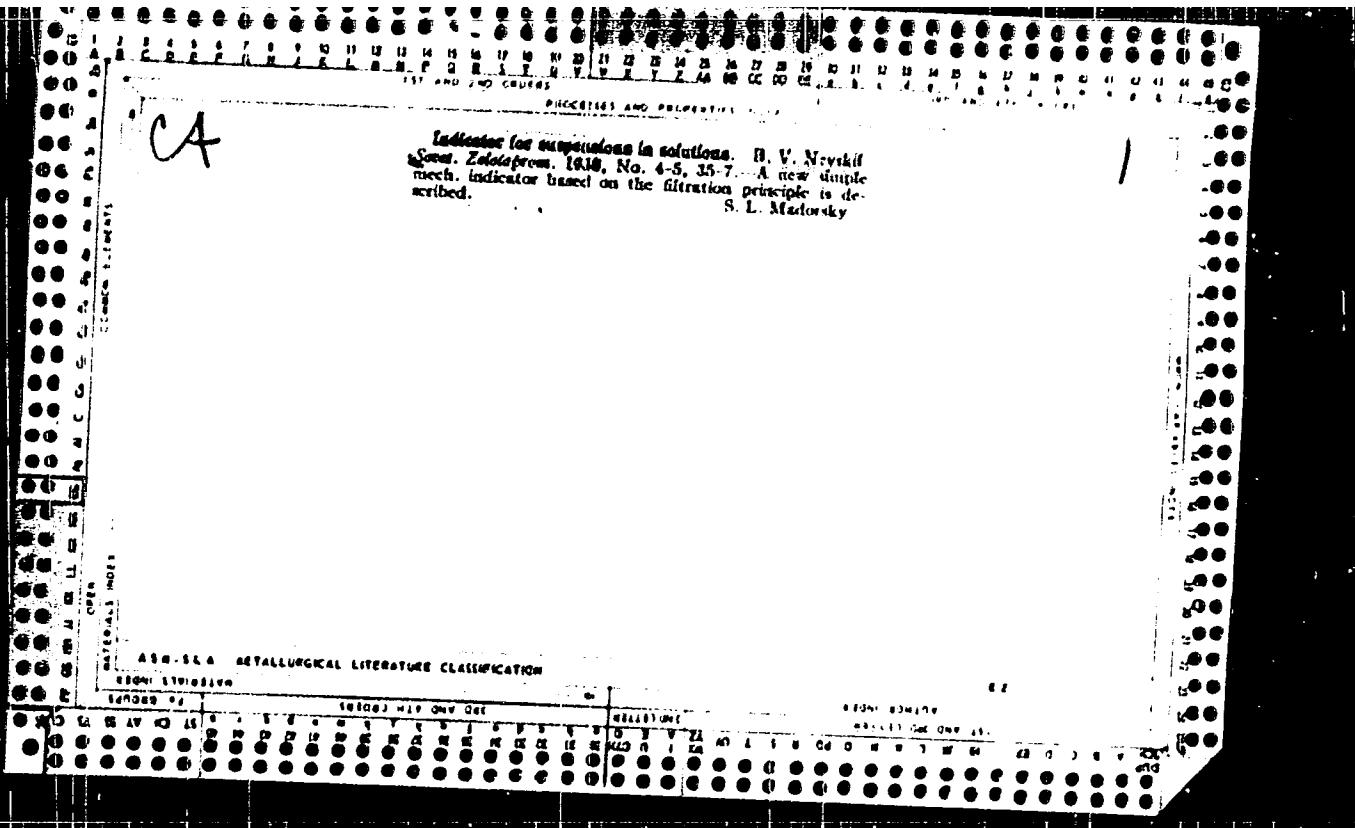
4.94.3.4 METALLURGICAL LITERATURE CLASSIFICATION

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APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R001136810C





1ST AND 2ND LEADERS
PROCESSES AND PROPERTY 14 401

OA
A new method of cyanidation of the sulfide gold ores and concentrates with addition of hydrophilic colloids. II
Nevskii. Zolotoye Prom. 1938, No. 10, 32; Khim. Referat.
Zhur. №. 4, 68 (1939); cf. C. A. 32, 6989f. The
cyanidation of the sulfide Au ores is difficult because the
ores are not easily wetted by water. The hydrophobic
properties of such ores are increased by flotation. The
hydrophobic properties of the ores can be reduced by an
addn. of hydrophilic colloids (saponin, tannin). The use
of these substances increases the extn. of Au, as shown by
the preliminary expts. at the Moscow Inst. of Noble
Metals and of Gold. W. R. Henn

ASB-11A METALLURGICAL LITERATURE CLASSIFICATION

TECHNICAL INFORMATION

14000	14001	14002	14003	14004	14005	14006	14007	14008	14009	14010	14011	14012	14013	14014	14015	14016	14017	14018	14019	14020	14021	14022	14023	14024	14025	14026	14027	14028	14029	14030	14031	14032	14033	14034	14035	14036	14037	14038	14039	14040	14041	14042	14043	14044	14045	14046	14047	14048	14049	14050	14051	14052	14053	14054	14055	14056	14057	14058	14059	14060	14061	14062	14063	14064	14065	14066	14067	14068	14069	14070	14071	14072	14073	14074	14075	14076	14077	14078	14079	14080	14081	14082	14083	14084	14085	14086	14087	14088	14089	14090	14091	14092	14093	14094	14095	14096	14097	14098	14099	140100	140101	140102	140103	140104	140105	140106	140107	140108	140109	140110	140111	140112	140113	140114	140115	140116	140117	140118	140119	140120	140121	140122	140123	140124	140125	140126	140127	140128	140129	140130	140131	140132	140133	140134	140135	140136	140137	140138	140139	140140	140141	140142	140143	140144	140145	140146	140147	140148	140149	140150	140151	140152	140153	140154	140155	140156	140157	140158	140159	140160	140161	140162	140163	140164	140165	140166	140167	140168	140169	140170	140171	140172	140173	140174	140175	140176	140177	140178	140179	140180	140181	140182	140183	140184	140185	140186	140187	140188	140189	140190	140191	140192	140193	140194	140195	140196	140197	140198	140199	140200	140201	140202	140203	140204	140205	140206	140207	140208	140209	140210	140211	140212	140213	140214	140215	140216	140217	140218	140219	140220	140221	140222	140223	140224	140225	140226	140227	140228	140229	140230	140231	140232	140233	140234	140235	140236	140237	140238	140239	140240	140241	140242	140243	140244	140245	140246	140247	140248	140249	140250	140251	140252	140253	140254	140255	140256	140257	140258	140259	140260	140261	140262	140263	140264	140265	140266	140267	140268	140269	140270	140271	140272	140273	140274	140275	140276	140277	140278	140279	140280	140281	140282	140283	140284	140285	140286	140287	140288	140289	140290	140291	140292	140293	140294	140295	140296	140297	140298	140299	140300	140301	140302	140303	140304	140305	140306	140307	140308	140309	140310	140311	140312	140313	140314	140315	140316	140317	140318	140319	140320	140321	140322	140323	140324	140325	140326	140327	140328	140329	140330	140331	140332	140333	140334	140335	140336	140337	140338	140339	140340	140341	140342	140343	140344	140345	140346	140347	140348	140349	140350	140351	140352	140353	140354	140355	140356	140357	140358	140359	140360	140361	140362	140363	140364	140365	140366	140367	140368	140369	140370	140371	140372	140373	140374	140375	140376	140377	140378	140379	140380	140381	140382	140383	140384	140385	140386	140387	140388	140389	140390	140391	140392	140393	140394	140395	140396	140397	140398	140399	140400	140401	140402	140403	140404	140405	140406	140407	140408	140409	140410	140411	140412	140413	140414	140415	140416	140417	140418	140419	140420	140421	140422	140423	140424	140425	140426	140427	140428	140429	140430	140431	140432	140433	140434	140435	140436	140437	140438	140439	140440	140441	140442	140443	140444	140445	140446	140447	140448	140449	140450	140451	140452	140453	140454	140455	140456	140457	140458	140459	140460	140461	140462	140463	140464	140465	140466	140467	140468	140469	140470	140471	140472	140473	140474	140475	140476	140477	140478	140479	140480	140481	140482	140483	140484	140485	140486	140487	140488	140489	140490	140491	140492	140493	140494	140495	140496	140497	140498	140499	140500	140501	140502	140503	140504	140505	140506	140507	140508	140509	140510	140511	140512	140513	140514	140515	140516	140517	140518	140519	140520	140521	140522	140523	140524	140525	140526	140527	140528	140529	140530	140531	140532	140533	140534	140535	140536	140537	140538	140539	140540	140541	140542	140543	140544	140545	140546	140547	140548	140549	140550	140551	140552	140553	140554	140555	140556	140557	140558	140559	140560	140561	140562	140563	140564	140565	140566	140567	140568	140569	140570	140571	140572	140573	140574	140575	140576	140577	140578	140579	140580	140581	140582	140583	140584	140585	140586	140587	140588	140589	140590	140591	140592	140593	140594	140595	140596	140597	140598	140599	140600	140601	140602	140603	140604	140605	140606	140607	140608	140609	140610	140611	140612	140613	140614	140615	140616	140617	140618	140619	140620	140621	140622	140623	140624	140625	140626	140627	140628	140629	140630	140631	140632	140633	140634	140635	140636	140637	140638	140639	140640	140641	140642	140643	140644	140645	140646	140647	140648	140649	140650	140651	140652	140653	140654	140655	140656	140657	140658	140659	140660	140661	140662	140663	140664	140665	140666	140667	140668	140669	140670	140671	140672	140673	140674	140675	140676	140677	140678	140679	140680	140681	140682	140683	140684	140685	140686	140687	140688	140689	140690	140691	140692	140693	140694	140695	140696	140697	140698	140699	140700	140701	140702	140703	140704	140705	140706	140707	140708	140709	140710	140711	140712	140713	140714	140715	140716	140717	140718	140719	140720	140721	140722	140723	140724	140725	140726	140727	1407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31

Note on gold and other minerals. B. V. Nevskaia
Russia 361,883, Nov. 30, 1939. Au is recovered and the
flotation power of the froth is increased by adding to the
pulp disintegrated wood chips after treatment with such
reagents as tar, or heavy crude oil bottoms, which enable the
gold or other minerals to be caught, but which do not
influence game.

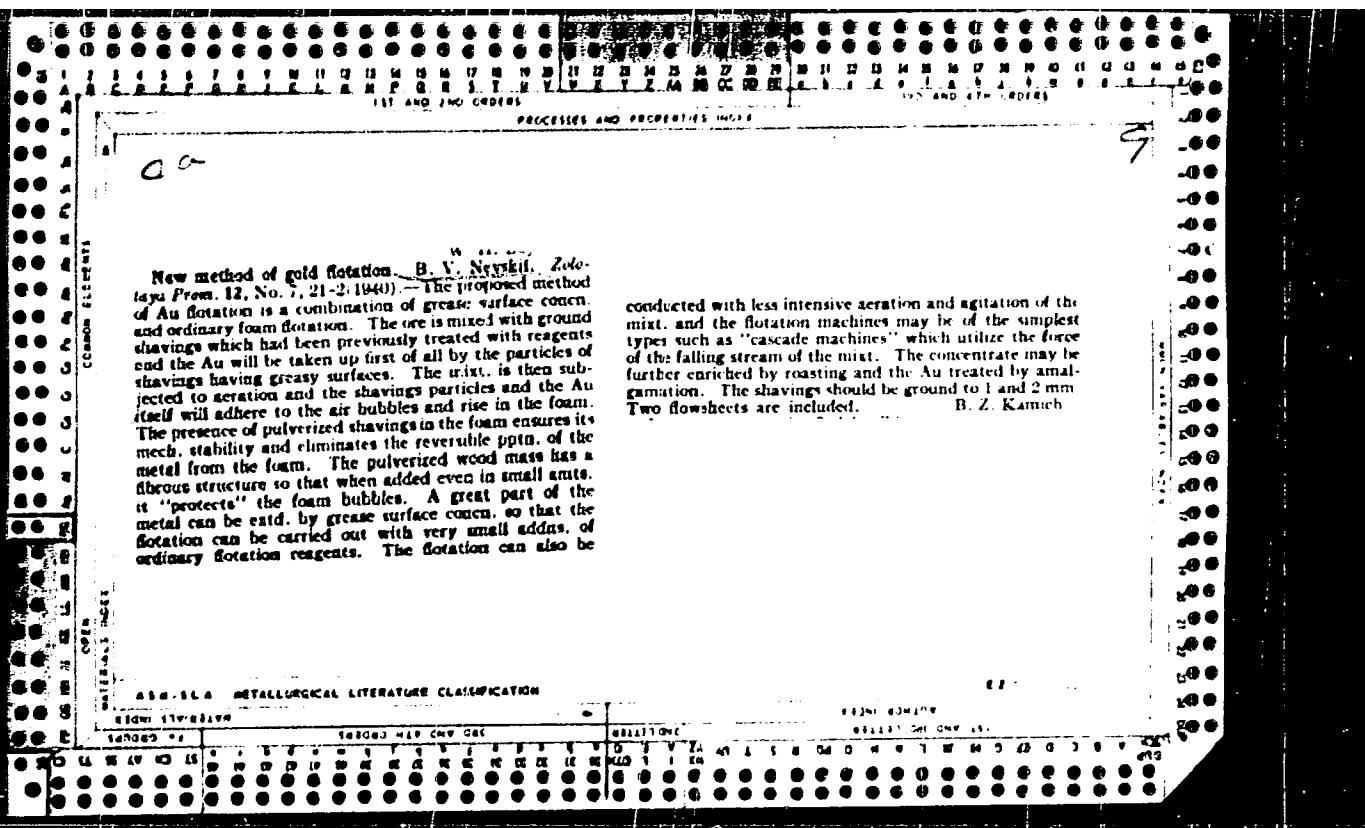
ASH SLR METALLURGICAL LITERATURE CLASSIFICATION

1. NEVSKIY, B.V.

2. USSR (600)

"Giprozoloto" (State Institute for Planning Gold Industry Enterprises) "The Elimination of the Loss of Concentrates in the Discharge of Coagulants", Tsvet. Met. 14, No 8 August 1939.

9. [REDACTED] Report U-1506, 4 Oct 1951.

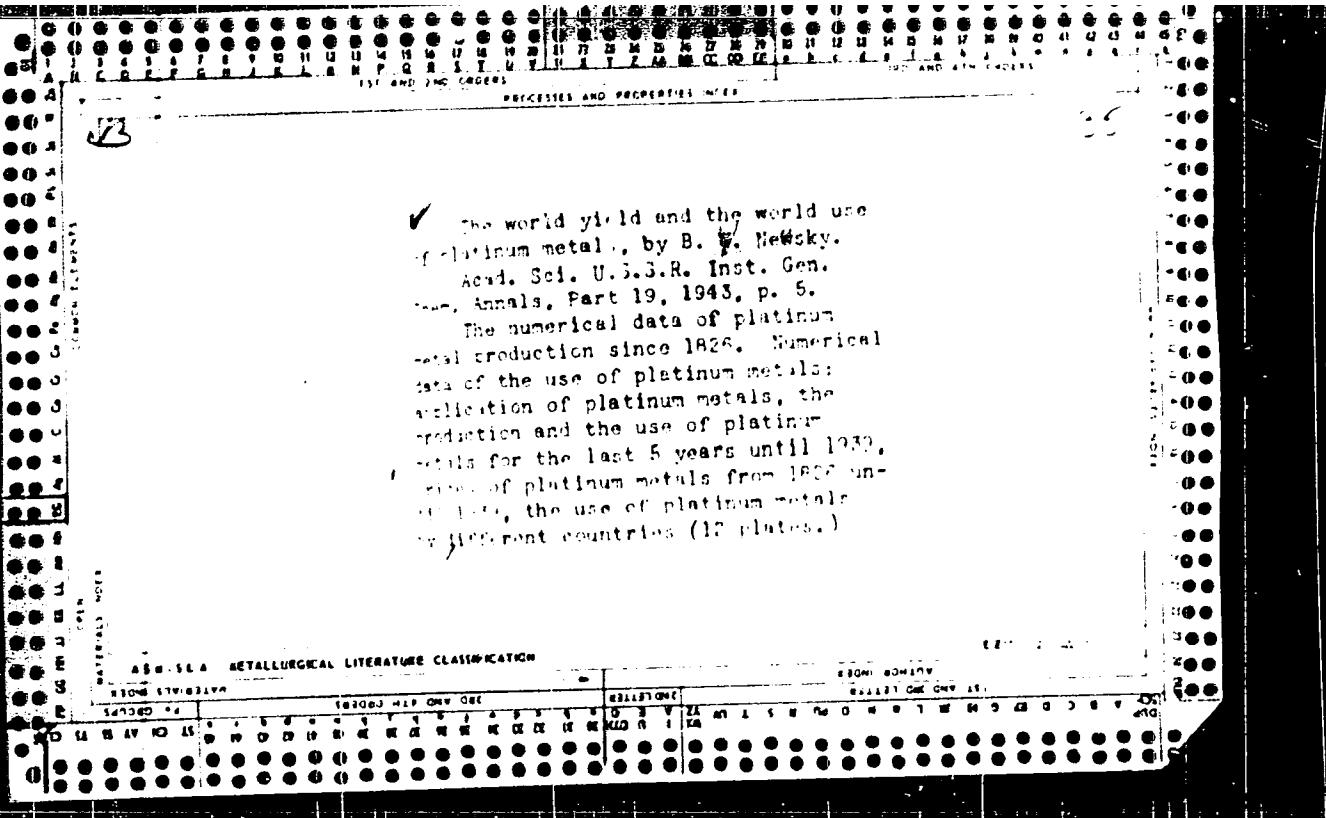


NEVSKIY, B.V.

KOMIYEV, T.I., Eng., MURATOV, I.A., Eng.

"Automatic Control and Regulation of Processes at Processing and
Extracting Factories."

Avtomatika i Telemekanika, vol 6, no. 1, 1971.



NEVSKIY, B. V.

Ore dressing Moskva, Gos. nauch.-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1947.
335 p. (49-14325)

TN520.N4

102. APPLICATION OF CYCLONES IN CONCENTRATION. Nevskii, B. V.
(Gornyi Zh. (Min. J.), June 1949, 35-37; abstr. in Bull. Inst. Min.
Met., Nov. 1950, (528), 4152).

The superiority of the cyclone compared with various plants operated by centrifugal force consists in simplicity of construction and lack of moving parts which reduce costs of installation and operation. The liquid moves through the cyclone under a great artificial pressure; consequently it is possible to achieve much greater speeds than in a spiral separator with slow rates of fall. Originally cyclones were used for thickening slimy pulp, and subsequently for concentration of coal and ores. In the concentration of ore in heavy suspensions, application of cyclones permits concentration of the smallest particles down to 100 mesh and lower, while in ordinary separating vessels the lower size limit at which separation is possible is not less than 1-2 mm. Close control can be obtained and tests have shown that the cyclone is very satisfactory for concentration of various types of ore. (L).

4.8.1.4 METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R001136810C

NEVSKIY, B. V.

Koval'skiy, I. L. and Nevskiy, B. V., "Theoretical Principles of Regulation," in their book, *Avtomatizatsiya i kontrol' protsessov v obogashchenii i gridrometallurgii* [Automatization and Control of Processes in Enrichment and in Hydro-metallurgy], Moscow, Metallurgizdat, 1953, Pages 139-163; 16 figures.

NEVSKIY, B.V., dotsent.

"Planning concentration plants" by K.A. Razumov. Reviewed by
B.V. Nevskii. Tsvet. met. 26 no.2:70-72 Kr-Ap '53. (MLRA 10:9)
(Ore dressing) (Razumov, K.A.)

~~NEVSKIJ, R.V.~~

Efficient systems for gravity concentration of ores. TSvet.met.
26 no.4:5-10 J1-Ag '53. (MIRA 10:10)
(Ore dressing)

NEVSKIY, B.V., kand.tekhn.nauk.

Unified standard of concentration. TSvet.met.27 no.3:64-65 My-Je '54.
(MIRA 10:10)

(Ore dressing)

AZV, B.V.

AUTHOR: Zefirov, A.P. and Nevskiy, B.V.

136-4-21/23

TITLE: Research and design organisations of France. (Issledovatel-skie i proektnye organizatsii Frantsii.)

PERIODICAL: "Tsvetnye Metally" (Non-ferrous Metals), 1957, No.4,
pp. 88 - 93 (U.S.S.R.)

ABSTRACT: The authors visited organisation in France in 1956 and
in this article they describe some of these: the research
laboratory of Minerais et Métaux, the testing station and
design office of the PIC firm, the research laboratories and
design office of SECPIA. The special features of these organ-
isations are given as their broad scope, the fact that they
work on a contract basis and the volume of work which they do
for non-French interests.

There are 6 figures.

AVAILABLE:

Card 1/1

AUTHORS: Zefirov, A.P. and Nevskiy, B.V. 136-7-20/22

TITLE: The production of pure titanium dioxide and titanium tetrachloride in France. (Proizvodstvo chistoy dvuokisi titana i chetyrekhkloristogo titana vo Frantsii).

PERIODICAL: "Tsvetnyye Metally", 1957, No.7, pp.91-93 (USSR).

ABSTRACT: The authors give an account of the methods and installations for the production of pure titanium dioxide and tetrachloride which they recently saw in France and discuss some opinions by French technologists.
1/1

There is 1 figure.

AVAILABLE: Library of Congress

"

21(1)

AUTHOR:

Nevskiy, B. V.

SOV/89-6-1-1/33

TITLE: Combined Use of Uranium Ores (Kompleksnoye ispol'zovaniye uranovykh rud)

PERIODICAL: Atomnaya energiya, 1959, Vol 6, Nr 1, pp 5 - 13 (USSR)

ABSTRACT: This is a detailed review of 22 English language articles published in Canada and America. It is shown that many uraniferous ores contain a number of valuable components which can be additionally obtained from these ores. Numerous other ores, which are mined only because of their molybdenum-, tantalum-, zirconium- content etc., contain a certain quantity of uranium which might be additionally obtained when dressing the ores. As in the case of additional production the work of mining, transport, crushing, etc. is generally carried out at the expense of the principal components, the production of such small quantities of uranium or other metals does not involve high costs. This applies to the following ore occurrences:

gold-uranium ores
uraniferous phosphorites

uranium-pyrite ores
zirconium-uranium ores

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Combined Use of Uranium Ores

SOV/69-6-1-1/33

uranium-vanadium ores	niobium-tantalum-uranium ores
uranium-copper ores	uranium-thorium ores
uraniferous coal and slate	uranium-molybdenum ores

There are 4 figures, 2 tables, and 22 references.

SUBMITTED: September 20, 1958

Card 2/2

21(1), 11(6)

AUTHORS:

Kaplan, G. Ye., Laskorin, B. N.,
Nevskiy, B. V.

SCV/69-6-2-1/26

TITLE:

Industrial Methods of Low-Grade Uranium Ore Refinement (Pravlysh-lennyye metody pererabotki tednykh uranovykh rud)

PERIODICAL:

Atomnaya energiya, 1959, Vol 6, Nr 2, pp 113 - 123 (USSR)

ABSTRACT:

This paper gives a survey of 23 English Ge-eva Reports dealing with the technical problems and industrial reprocessing of uraniumiferous ores. The extraction of uranium from uranium solutions by sorption at synthetic resins is being widely used at present, and 70% of all uranium is now obtained by this method. Uranium extraction by liquid extracting agents is less applied. The usual mechanical enrichment methods, such as gravitation, flotation, etc., are of secondary importance. However, this method regains importance in connection with the possibility of complex ore refinement. Radiometric enrichment is a very modern method, wherein the radioactive properties of uraniumiferous minerals are used for separating them from barren rock. There are 4 figures and 28 references.

Card 1/2

ZEFIROV, A.P., prof., doktor tekhn. nauk; NEVSKIY, B.V.; IVANOV, G.F.; VORONOVA, A.I., red.; MAZEL', Ye.I., tekhn. red.

[Plants for the processing of uranium ores in capitalist countries] Zavody po pererabotke uranovykh rud v kapitalisticheskikh stranakh. Pod obshchei red. A.P.Zefirova. Moskva, Gosatomizdat, 1962. 370 p. (MIRA 15:7)
(Uranium industry)

ALKHAZASHVILI, G.M.; NEVSKIY, B.V.; ARKHAROVA, I.I.

Use of minerals of enclosing rocks in studying uranium sorption. Atom.
energ. 16 no.1:51-55 Ja '64. (MIRA 17:2)

NEVSKIY, B.V.; SMIRNOV, I.P.; PIFKOVSKY, S.A.

Effect of the mass transfer intensity on certain indicators
in the process of autoclave leaching of uranium ore. Atom.
energ. 17 no.3:201-205 S '64. (MIFI 17:9)

L 63967-65

ACCESSION NR: AP5022495

UR/0039/65/018/006/0647/0648

AUTHOR: Morenev, M. A.; Nevezkiy, B. V.; Zorina, Z. P.; Ambartsumyan, Te. L.;
Nazarenko, N. G.

TITLE: Precipitation of uranyl and ammonium arsenates and some of their properties

SOURCE: Atomnaya energiya, v. 18, no. 6, 1965, 647-648

TOPIC TAGS: uranium compound, uranyl nitrate, ammonium compound,
arsenite, chemical precipitation

ABSTRACT: X ray and thermographic analysis of uranyl nitrates (with 0.5g/l
uranium) showed that at 20°C and arsenic-uranium near stoichiometric the precipi-
tation of uranyl and ammonium arsenates from uranyl nitrates began at pH ≈ 1.5.
At pH = 2.5 the main part of uranium precipitation was accomplished by the ammonium
arsenite. At pH = 3.5 the arsenite looked like a fine crystal.

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ACCESSION NR: AP5022495

and di- and trivalent iron and aluminum arsenates as functions of uranium (0.250g/l) concentration and pH of the solution was determined. The pH values for the initial and final uranyl and ammonium arsenates precipitation were determined. The constructed curves show that uranyl and ammonium arsenates and trivalent iron co-precipitated at close pH values which prevents selective uranium separation. Precipitation of divalent iron and aluminum begins at larger pH than uranium. Separation of uranium is easily achieved in the presence of

of divalent iron and aluminum ions.

ASSOCIATION: none

SUBMITTED: 13 May 64

NR REF Sov: 004

ENCL: 00

OTHER: OC4

SUB CODE: IC, GC

NAME

Card 2/2

NEVSKIY, D.

For a more serious approach to the question of sending cadres of
rural construction workers to school. Sel'stroi.10 no.6:8 Je'55.
(MLRA 8:10)

1. Buhgalter Kurskoy mezhoblastnoy shkoly perepodgotovki rukovo-
dyashchikh rabotnikov sel'skogo stroitel'stva
(Kursk--Building--Study and teaching)

KOLTON, A.Yu., kand. tekhn. nauk; NEVSKIY, D.Yu., inzh.

Development and study of the runners of the turbines of
the Krasnoyarsk Hydroelectric Power Station. [Trudy] LMZ
no.10: 53-79 '64. (MIRA 18:12)

NEVSKIY, G.K.

Tectonic prerequisites for oil and gas prospecting in Paleozoic
sediments of the Chu - Sary-Su Depression. Geol. nefti i gaza
6 no.7:14-19 Jl '62. (MIRA 15:6)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologorazvedochnyy
institut.

(Chu Valley—Petroleum geology)
(Sary-Su Valley—Gas, Natural—Geology)
(Sary-Su Valley—Petroleum geology)
(Chu Valley—Gas, Natural—Geology)

NEVSKIY, G.K.

Tertiary continental sediments of some troughs in Central Asia.
Trudy VNIGRI no.190:412-420 '62. (MIRA 16:1)
(Asia, Central---Geology, Stratigraphic)

NEVSKIY, I.A., uchitel'

Lessons in studying the pulse family. Biol.v shkole no.4:
15-18 J1-4g '60. (MIRA 13:7)

1. Srednyaya shkola No.4, g.Lyublino, Moskovskoy oblasti.
(Botany—Study and teaching)
(Leguminosae)

MEVSKIY, I.A.

Study of crustaceans and arachnids. Biol.v shkole no.4:42-47
Jl-Ag '62. (MIRA 15:12)

1. Institut teorii i istorii pedagogiki Akademii pedagogicheskikh
nauk RSFSR.

(Crustacea) (Arachnida)
(Zoology--Study and teaching)

NEVSKIY, I.A.

Study and development of inclinations during the teaching process in school. Vop. psichol. 10 no.2:57-66 Mr-Ap '64.
(MIRA 17;9)

I. Institut teorii i istorii pedagogiki Akademii pedagogicheskikh nauk RSFSR, Moskva.

WYATT, E. M.

"On the early prevention of viruses of the nervous system."

report submitted at the 13th International Congress of Infectious and Immuno-logic and Infectologists, 1951.

NEVSKY, I.S., kand. med. nauk, polkovnik meditsinskoy sluzhby; KULOV, Dan.,
kand. med. nauk, polkovnik meditsinskoy sluzhby; ANDREEV, P.P.,
polkovnik meditsinskoy sluzhby.

Prevention of atherosclerosis in United States citizens is needed.
Zhur. no. 1-19-36 Ja 1960 (118) (red)

NEVSKIY, L.A. (Nerekhta, Kostromskoy oblasti)

In the south of the taiga region. Priroda 47 no. 4: 124-125 Ap...
(MIRA 1981)

1. Chlen-korrespondent AN Turkmeneskoy SSR, Ashkhabad.
(Kara kum--Spring)

NEVSKIY, L. M.

NEVSKIY, L. M.: "The content of free and bound water and the viscosity of protoplasm in barley plants at various stages of development and with various degrees of soil moisture." Leningrad State Pedagogical Institute imeni A. I. Gertsen. Chair of Botany. Leningrad, 1956. (Dissertation For the Degree of Candidate in Biological Science.)

Knizhnaya Letopis'
No 32, 1956. Moscow.

NEVSKIY, V.V., inzh.

New visual methods for studying flows in water streams.
Transp.strel. 15 no.10:40-42 0 '65.

(MIRA 18:12)

NEVSKIY, L.S.

"Atypical Forms of Malignant Anthrax." Theses for
degree of Cand. Veterinary Sci., Sub 26 May 49,
Moscow Chemicotechnological Inst of Meat Industry.

FDD Summary 82, 18 Dec 52, Dissertations Presented
for Degrees in Science and Engineering in Moscow
in 1949. From Vechernaya Moskva, Jan-Dec 1949.

NEVSKIY, L. S. (Cand. of Vet. Sciences)

"Improve the work of meat control stations on kolkhoz markets."

SO: Vet. 27 (2), 1950, p. 43

NEVSKIY, L. S.
USSR/Medicine - Veterinary

FD 324

Card 1/1

Author : Nevskiy, L. S., Candidate of Veterinary Sciences, and Pugovkina, A. A.,
Senior Veterinary Physician

Title : Manifestation of tapeworms

Periodical : Veterinariya, 6, 58, June 1954

Abstract : Although cases of tapeworm in cattle are less frequent now than before the revolution, the disorder is still prevalent in some parts of the country. In order to render meat fit for public consumption the authors of this article recommend freezing it first; they suggest storing meat in places where a temperature of minus 25°C is maintained. They further suggest that veterinary agencies provide necessary personnel to inspect meat and to see that cattle are fed well and receive proper care. One table.

Institution : Moscow City Veterinary Department

Submitted :

NEVSKIY, L.S., kandidat veterinarnykh nauk.

Kerosene in tympanites. Veterinariia 32 no.5:71 My '55.
(MLRA 8:7)

1. Moscowkaya goredskaya vetraklaberateriya.
(STOMACH--DISEASES) (KEROSENE--PHYSIOLOGICAL EFFECT)

23769

112217 abo 2209

S/90/61/003/006/012/019
B110/B208

AUTHORS: Frolova, M. I., Nevskiy, I. V., Ryabov, A.V.

TITLE: Light aging of polymethyl methacrylate.
II. Study of photolysis by radioactive carbon C¹⁴

PERIODICAL: Vysokomolekulyarnyye soyedineniya. v. 3, no. 6, '96,
877 ~ 881

TEXT: The study of the gases separated during light aging of polymers (e.g., polymethyl methacrylate - PMMA) is of importance in the clarification of destruction reactions and in the development of rational stabilization methods. An attempt is made in the present study to explain the formation mechanism of photolysis gases by C¹⁴, and the relationship between the mechanism of gas evolution and the photolysis of PMMA. PMMA samples labeled with C¹⁴ in different positions were subjected to block polymerization at 45°C with subsequent heating to 110°C, and then freed of the monomer by three-fold precipitation with methanol from acetone solution. The powder samples with linear particle dimensions of 0.5 Card '7

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3/30/61/001/006/011/019

B'10/B208

Light aging of polymethyl methacrylate.
II. Study of ...

- 1.5 mm were irradiated with the EPM-2 (PRK-2) mercury quartz lamp in glass boats at $\sim 10^{-6}$ mm Hg residual pressure for 50 hr. The pressure there increased to 6.7 mm. The reaction vessel 6 for the combustion of the gases formed was then fitted to the device shown in the Fig. Stopcock 2 was closed and the whole plant was evacuated by means of a rough vacuum pump through the stopcocks 3,4,5. A part of the gases was then conducted into vessel 9 by opening stopcock 2. The necessary amount of oxygen flew in through stopcock 9. The gas to be analyzed which was mixed with oxygen in vessel 9 was oxidized over copper oxide at 750 - 850°C, carbon dioxide was collected in 12, the water vapor in 11. In vessel 13 the radioactive carbon dioxide was diluted with ordinary CO₂ up to the volume required for filling the counter, radioactivity was measured in 14. Gas evolution in the presence of oxygen and nitric oxide was studied in a similar way. The gases could be quantitatively burned in the plant. The macromolecular chains may be ruptured by primary action

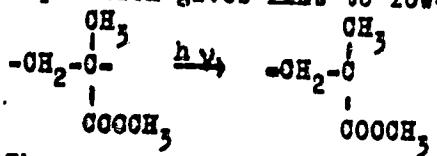
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B110/208

Light aging of polymethyl methacrylate.
II. Study of ...

of light and by secondary reaction, as the radiant energy of TPK-2 (PRK-2) lamps of 120 kcal/mole is sufficient for the rupture of chemical compounds. In the case of UV radiation the ester groups are most sensitive. Their separation gives rise to low- and high-molecular radicals:



The mass spectrum analysis of the gases formed in the photolysis of PMMA in vacuo disclosed a short lifetime of the low-molecular radicals owing to their reaction with the surrounding molecules. The formation of methyl formate was also confirmed by mass spectrum analysis (characteristic peaks): $\text{COOCCH}_3 + \text{RH} \longrightarrow \text{HCOOCCH}_3 + \text{R}'$ ($\text{R}' = \text{macroradical}$). UV radiation

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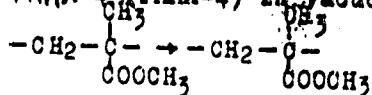
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Light aging of polymethyl methacrylate.
II. Study of ...

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B110/B208

destroys methyl formate under formation of a complicated gas mixture. The separation of lateral ester groups is supported by the activity data of the decomposition gases of PMMA-3 and PMMA-4 samples. As the activity decreased after three-fold reprecipitation it is assumed to be due to impurities. No monomeric methyl methacrylate molecules are split off in this connection. In the PMMA-1 and PMMA-2 decomposition, the subsequent decomposition of methyl formate gives rise to the formation of CO₂ and other gases which react with the polymer chains and thus separate from the gas phase. In the photolysis in the presence of oxygen, carbon from the α -methyl group and a quaternary carbon atom were detected. The exact relationship between the reactions causing the macromolecular chain rupture (1) and those of ester group separation (2) could not be established. (1) can only be primary in the rupture of C-C-bonds at the quaternary C-atom like in the rupture due to electron action. When the α -methyl group is split off in the photolysis of TMMA-4 (PMMA-4) in vacuo:

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Light aging of polymethyl methacrylate.
II. Study of ...

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S/190/61/003/006/012/019
B110/B208

the methyl radical also reacts with polymer chains or radicals. The authors thank V. A. Kargin for his advice and M. V. Tikhomirov for studying the mass spectra of the gases. There are 1 figure, 1 table, and 16 references: 5 Soviet-bloc and 11 non-Soviet-bloc. The most important references to English-language publications read as follows: Ref. 4: J. H. Flinn, W. K. Wilson, W. L. Morrow, J. Res. Nat. Bur. Stand., 60, 229, 1958. Ref. 6: L. H. Wartman, Industr. and Engng. Chem., 47, 1013, 1955. Ref. 7: D. E. Winkler, J. Polymer Sci., 35, 3, 1959.

SUBMITTED: July 28, 1960

Card 5/7

60040-51

ACCESSION NR: AP5018040

associated with a rapid evolution of gas, which dropped off with time of irradiation. Mass-spectrometric analysis of the gaseous products of polyurethane containing 3% carbamide groups established the presence of CO₂, CO, H₂, H₂O, CH₄, HCN, and CH₂O. ESR spectra showed the presence of free radicals and will be discussed in a later report. The viscosity of the soluble part of the irradiated polymers remains practically unchanged during the course of irradiation. Measurements of the angle of wetting lead to the conclusion that, as irradiation goes on, hydrophobization of the surface of the films takes place. Crig. art. has: 4 figures, 1 table, and 2 formulas.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: XC

NO REF SOV: 004

OTHER: 011

L 08800-67 EWP(m)/EWP(j) IJP(c) RM
ACC NR: AP6030853 (A, N) SOURCE CODE: UR/0191/66/000/009/0045/0047

AUTHOR: Nevskiy, L. V.; Tarakanov, O. G.

ORG: none

34

TITLE: Color formation in polyurethanes as a result of illumination

SOURCE: Plasticheskiye massy, no. 9, 1966, 45-47

TOPIC TAGS: polyurethane, isocyanate resin, polymer physical chemistry, synthetic material, free radical, UV irradiation, UV absorption

ABSTRACT: The factors underlying the yellowish color in polyurethanes based on toluenediisocyanate when illuminated with UV-light were investigated. The study was conducted on 0.1 mm films prepared from toluenediisocyanate adduct and polyoxypropylene diol in benzene by hardening the condensation product with glycerine on the mercury surface. Steps were taken to exclude moisture from the reaction zone and portions of the sample areas were protected from UV-light. The extent of the color formation in the films was defined optically (in terms of optical density) on a CF-4 spectrophotometer. All samples were illuminated for 50 hrs. It was concluded that oxidation in the UV-illuminated polyurethanes may occur in the absence of oxygen. This type of oxidation in polyurethanes is attributed either to light-induced changes in the aromatic ring of the disocyanate or to a conjugation involving an unpaired electron. The

Card 1/2

UDC: 678.664.01:535.68-31

L'08800-67

ACC NR: AP6030353

O

formation of this unpaired electron would result from the cleavage of the N-C bonds in the polyurethane chains. Orig. art. has: 2 figures.

SUB CODE: 07,11/ SUBM DATE: 00/ ORIG REF: 004/ OTH REF: 008

Card 2/2 nat

NEVSKIY, M. L.

NEVSKIY, M.L.

[Origin of animals and plants] O proiskhozhdenii zhivotnykh i
rastenii. Moskva, Gos. antireligionnoe izd-vo, 1953. 69 p.
(Natural history) (MIRA 7:5)

NEVSKIY, M.P.

Bioelectric activity of the brain in hypnotic sleep. Zhur.nevr.i
psikh. 54 no.1:26-32 Ja '54. (MLB 7:1)

1. Psichiatricheskaya klinika im. S.S.Korsakova I Moskovskogo
ordena Lenina meditsinskogo instituta.
(Brain) (Sleep) (Electrophysiology)